ART. V.—Cases of Adhesion of the Placenta and Hour-glass Contraction of the Uterus. By W. H. Byford, M. D., of Evousville, Iud.

CASE I.—I was called, November 1, 1842, to see Mrs. L., in the sixth month of her pregnoncy with second child; she was 34 years old.

Mrs. L. had miscarried ot early periods of pregoancy fourteen times, and for several years hor health was much impaired on account of the flooding which usually attended them. She had been married eighteen years; had sometimes two miscarriages o year. Great difficulty was experienced in overcoming her maiost constant tendency to ahortion with the first child. She was attacked ohout one o'clock this morning with shivering, succeeded by febrile reactive pain in the right side n little below the umbilious, of a dull charecter, which was persistent and aggravated by pressure. Soon ofter the chill had subsided she hegan to experience pains resembling "lahour-pains." When I saw her the pulse was 105, full and hard; tongue with a white fur, some nausen, probably, resulting from the doso of loudonum taken during the night; costiveness; head, back, and bone-nohe. The foce was flushed, the skin dry and hot. Examined per vaginom; the os uteri was high up and tightly closed; the veginal nuceus membrane het end deveid of secretion. The feetal heart beat feelily hetween the left ilium and umhilicus, and the placental muraur was heard at the seat of the dull pain. She was bled sufficiently to affect the pulse in a sitting posture, took e saline cathartic, and had warm fomentations with tiacture of campher over abdomen, while obsolute quictude was enjoined. Visited ogoin et 10 c'cleek P. M. The cathertic had acted pretty freely, Paroxysmol uterino poin relieved entirely; constant pain in side much hetter. Govo ten groins Dover's powders, ordered fomentatious to be continued, and left for the night.

November 2, 10 o'clock A. M. The patient has perspired freely all night, rested well, and experiences no inconvenience hut soreness in side when she moves. Pulso ahout 85, rather full. Spt. mindereri, quietude, and fomentations for the doy. Called again at 10 P. M.; pain pretty nearly as severe os ot first, with slight return of paroxysmal pains; pulse 100, full and tolerably lard; bowels not moved since day before yesterday; headache; hack and honeache. Venescetion again to about sixteen ounces; continue fomentations to ahdeauen; take two grains calomel and quarter grain sulph. morph.; repeat

in four hours if not hetter.

Nov. 3, 10 A.M. Rested well, did not toke the other pewder, and says she feels hetter then since first attack. Gave a cathartic. After it operates toke

six grains Dover's powder every three hours.

It will be needless to pursue a regular occount of the ease further. With claiest nothing else, in about a week she was quite well, except weakness. Mrs. L. required no further attention until she was, on Feb. 24, 1843, two o'clock A.M., taken in lahour. I was called about six; found os uteri entirely open; the head engaged in the upper strait; pains octive, frequent, and propulsive. All went on well, and in one hour and a half the child was expelled, the cord separated, and it removed. I should also state that the membranes did not give way until the head occupied the lower strait, and not more then thirty minutes before the head was expelled. The child being removed, I scated myself by my patient and waited for the uterus to expel the placeute. In a short time three pains succeeded each other, expelling more than ordinary coagula; but the placeuta was not thrown down

into the vagina, nor lower part of the uterus. I waited for several more paios; no placenta; much blood. The pains were described by the patient as cramps instead of throes, and being almost insuppartable. Placing my left haad on the abdomen I found, to my surprise, that the fundus reached above the umbilicus, and instead of sinking, arose higher up during each pain. introduced my hand into the uterus and found about the middle of the body a contraction, leaving scarcely room for the cord that resisted its farther progress; but as flooding was great I felt under the necessity of overcoming it and reliaving the placenta. With my hand, made conical by the prescribed and tenanting to the interest in a proceeding in a gradual and cautious manner when the patient fainted; relaxation immediately took place, and no further resistance affered. The placenta was implanted upon the side near the fundus, and adherent very firmly over an extent of about, as near as I could judge, one fourth of its extent, so firmly as to require something more than mere grasping to remove it. After several minutes, cautiously "peeling up," it was separated and removed. The uterus followed, by more regular and normal contractions, until it contracted to its usual size after delivery. No farther hemorrhage occurred. The patient, however, was very much depressed by the loss sho had sustained, and it was several hams before she recovered from it. Abaut an inch of the edge of the placenta far nearly a third of its circumference was so condensed by the deposition of fibrin as to entirely obliterate the peculiar structure of the organ; no trace of the cavernous tissue being left. It was replaced by a firm, unyielding, almost cartilaginously hard substance. From appearances this must have been the point of adhesion between it and the uterus.

CASE II.—I was called, December 6, 1845, to Mrs. J., pregnant with her sixth child. She was in the eighth mouth. Arriving at 2 two o'clock P. M., I received the following account of her case: She was attacked yesterday about six o'clock, while milking, with a dull pain in the left groin, reaching up towards the ribs, which she said distressed her very much. When she returned into the house it was necessary to take her to bed, in consequeuce of chilliness and paroxysmal uterino pains. After going to bed, placing n hot bag of ashes to her side, and taking thirty drops of landanum in some warm tea, she soon became very much better. The parexysmal pains ceased entirely. Towards morning the chilliness returned; it was succeeded by fever, pain in the head, back, and oxtremities. The febrile symptoms bad constantly continued until my arrival. There was considerable pain in side, and soreacss; pulso 104, tense, but not very full; nausca, constipation, dry skin, flushed face, enated tongue. I bled her until the pain was much relieved, the pulsa reduced in force and frequency, and perspiration occurred. As she had taken easter ail in the earlier part of the day, and it had not operated, I gave another portion with ten grains of calomel, to be followed, if the bowels were not acted upon in six hours, by Epsom salts one ounce. Fomentations to the seat of pain, with hot spirits of camphor. After the medicina operated twice. she was to have eight grains of Dover's powders every three hours.

7th, 4 o'clock P. M. Faund her much relieved. The salts which was given her produced large green watery discharges; the Dover's powder produced perspiration; but yet there was some pain. Continue the fomentations and powders; give at bedtime two grains calomel and a quarter of a grain of sulph. marph., and repeat in four haurs unless the first produces rest. Early in the

morning sulph. mag. to produce purgation.

8th, M. Much better, some pairs. As it was twelve miles in the country I did not see her again. But, by giving anodynes and mild mercurials until

slight ptyalism occurred, she was so free from disease that she did not take anything more than laxatives to keep the bowels open.

I saw her husband five weeks after the attack, when he said Mrs. J. had some pain and screness all the time since last visit, but that was all the incourcineuce at present. Although she had always heen ntteuded by a midwife in her previous confinements, she was anxions to engage my services in this case, as she was apprehensive the after-birth had grown fast to her side.

Feb. 6, 1846, 8 o'clock A. M. A messenger arrived with a hurrying message from Mrs. J., who had been delivered at 6 o'clock, and was supposed to be dying from loss of blood. Nearly two bours clapsed before I saw her. She bad becu dead for half an hour. The placenta was undelivered, and the midwife said, "was not in the womb, nor did she know where it was." The hushaad desired me, if possible, to ascertain the cause of his wife's death. I passed my haud into the uterus and found the contraction of a portion of the circular tibres had divided the eavity into two chambers. In the uppermost was lodged the placenta. The contraction was dilated without much resistonce. Arriving at the placenta I endeavoured to remove it, but the odbesion between it and the uterine wolls was so extensive and firm that it required several minutes to "peel" it off. The whole uterus contracted so firmly and uniformly, ofter the withdrawal of the placenta and hand, that it awakened some hope of resus-Accordingly, I caused her head to be removed off the bed and very citation. much lowered, and her feet to be roised to an angle of forty-five degrees, so as to induce a flow of blood to the head, and, if possible, stimulate the braic to a discharge of its functions. I used the cold douche to head and chest, and, as well as I could, resorted to ortificial respiration. But all produced no effect. It retuained for me to examine the placenta. The same hard, compact appearance of its edge was present in this as in the first case. Not so dense, perhops, nor so extensivo, but contracted with the healthy structure, it was unmistakably fibrinous condensation. It occupied the edge, os in the former case, and extended ahout an inch towards the centre.

CASE III.—Was called, July 6, 1846, four o'clock A. M., three miles, to see Mrs. M., who was moribund from hemorrhagie exhaustica. Extremities iey eold; gasping respiration; vomitiag; frequent faiating; glassy eyo; pulse imperceptible; husky voice; and delirium, jactitotion, &c. The blood was still passing from the vagina, but to a very nuoderote extent. My first object was to cause the blood to flow to the hrain. I turned her head and shoulders off the bed, and held them as much dependent os possible, and had the feet and legs raised. In this position, there seemed, for a few moments, some rallying. An attempt was made to administer stimulants, but she could not swallow in this position, and begged to he raised so that she could have a drink. Finding there was no other chance, I raised her head slightly above the horizontal position, when she fainted, and never rovived.

The midwife told me that she was taken in labour at five o'clock the evening hefore. The labour progressed naturally, and the child was delivered about twelve o'clock at night. Everything promised well, for one so weak. The placenta being delayed, she examined but could not find it. Pains continued, of a erampy character, worked up, and the womb was so high that for a time she thought there was nnother child. Hemorrhoge being very profuse, she became alarmed and perplexed, and desired to have me sent for. During the time the messenger was gone, flooding became still more copious; syncope occurred frequently, and ushered in the symptoms I have above described.

Upon placing my hand on the abdomen, I found it occupied with a long,

irregular tumour, reaching above the umbilical region. I introduced my hand into the uterus, and found unnular contraction near the middle, with the cord passing through it. Carrying the hand through it, the placenta was reached near the fundus, where it was pretty firmly attached. I removed it without much trouble, as the adhesion was not very extensive. As in the case of Mrs. J., the uterus contracted firmly upon my hand, and assumed its globular shape above the pubes. Upon examining the placenta, I found a portion of the edge, the circumferential length of about two inches, hard, thin, and shining when cut. A circumseribed spot of an inch, perhaps, near the hardened spot, was soft, and continued pus. The placeuta, as a whole, was uncommonly large.

The history of Mrs. M.'s pregnancy was very interesting, although imperfect. In her sixth month, she fell down with a lead of wood on her shoulder, and struck her inhomen against a plough handle. This caused her much pain in the place, and paroxysmal uteriuo pains for several days. These hast gradually wore off, but she remained quite unwell during the remainder of her pregnancy. If ad pain, some fover, night-sweats, diarrhea, &c., the most of the time. She was very much debilitated ut the time of her accouchement. So far as I could learn, she had had no medical intendance.

These three cases I regarded as placeutitis, possibly complicated with local metritis. Sufficient proof, I think, of this was presented in the symptoms and appearance of the placentae. Depositions of fibrin in all, and formation of pus in one, leave no doubt in the matter. How terrible the result in two! and, in the third, what imminent peril was incurred! Adhesion of the placenta was its effect. Does this adhesion over occur only as a consequence of iaflammatory deposition? I think not. Doubtless many eases of partial placentitis pass off in resolution, and are not recognized as such. Atony of the uterus may fail to throw off the placenta of ordinary attachment; but I think it next to certain, that all cases which resist pertinaciously powerful contractions, prevent the uniform subsidence of the uterine globo, and cause such herrible floodings as result in death in so short a time as two of the cases above detailed-and as must have been the case in the other, but for prompt sad judicious management-are brought about by the plastic products of inflammation. Whether primary, or secondary to uterino inflammation, it is impossible to decide; that it may be primary is reasonable and probable.

CASE IV.—I was called to Mrs. I., aged thirty, a stout, energetic womsu, ia labour with fifth child. The first intimation she had of the approach of labour, was an ovacuation of liquor amuli, which occurred as she was getting in bed ahout 10 o'clock P. M.—now two hours since. It continued dribbling away, but she had no pain whatever. I quieted her apprehensions of danger from this, to her, ususual commencement, and went home, directing her to send for me when the pains should become urgent.

At eight o'clock next morning I was called again, and found the paius feehle hut frequent, with constaut draining of the water at each pain. The as after was open to the size of half a dellar, but high up. No propulsive tendency in the pains. I was absent ngain about two hours. When I returned, the os was entirely dilated, and the head was engaged in the pelvis. The paias had a slight propulsive effect at first, but, as they were off, in the language of the patient, they "worked up" as each three ceased. About high

twelvo, she was delivered of a large and healthy femalo child. This lahour, for her, had been unusually tedious and painful. Tho placenta was found in the vagina, and was removed without any further nid from the uterus. Placing my hand upon the unbdomen, I felt the uterus forming a long, narrow, irregular tumour, that reached abave the umbilieus. While my hand was can the abdomen, a peculiar, sickening, and cramping pain, described as heiga very different from the ardinary after-pains, was experienced. It was of very long duration, and attended with a large discharge of fluid bload and coagula. I placed cold wet oloths over the abdomen, rubbed, washed, and poured a stream of cold water upon it, but to no purpose. The pain recurred often, the flooding continued, and an alarming state of exhaustian threatened. I now introduced my hand into the cavity. There was a cantraction about the middle of the body, sa tight that considerable persoverance was necessary to dilate it. This being done, a large body of coagula was set free that had beca imprisoned in the upper division. The whole organ now contracted uniformly, until of its usual size and form in such cases. No further heatourhage occurred. The patient, of course, was much prostated, but receavered in a reasonabla time and manaer, and had a good "getting up."

CASE V .- Was called June 4, 1848, ta see Mrs. G. at 8 P. M., full term af pregnancy. About 5 o'clack, threa hours before my arrival, while stooping, sha experienced a gush of water fram the vagina. For an hour it continued almost caastantly to drain away. At the end of this time she hegan to feel, at intervals, a slight pain in the back. Things remaining so for some time I retired. Ahaut midnight I was called up; the pains had increased in frequency and severity, but, according to her own expressian, "worked up" inta her stomach. Tha as uteri was open anly enough ta admit the ead of tha index flager. Presentatian gaod. At every pain n slight gush of water cauld ba felt in the vagina. Ta ba shart, tha pains cantinued slaw, feeble, tearing, and "warking up," until abaut 5 o'alock A. M., an tha fifth, whea tha as uteri was fully dilated. The pains then becama propulsive, but at the end af each pain the distressing sensatian af "warking up" was experienced, until the head was expelled. The child was delivered at 10 o'clock, seventeen hours after the rupture of the membranes. Apprehensive af irregular eantraction, I placed my hand an the abdomen, and found the long hard tumour characteristic of these cases. Anxious to see whether nature would do anything for the relief of the case, I awaited the recurrence of pain, and I shall never forget the energetic epithets she employed to convey an idea of their exeruciating severity. "They seemed like n cramping, that compassed all her capacity for pain; n rise, squeezing her bowels to a jelly." They were accompanied with profuso hemorrhage, congula, and fluid. Although the placeuta was felt, at the as uteri, it could not be remayed by any justifiable means. When drawn down into the vagina it receded the moment the traction was relaxed. I introduced my hand. The placeata was grasped in the annular stricture, which existed about one-third up the body of the uterus, and so firmly held that it could not be removed without tearing. The stricture was slowly dilated and the upper chamber reached, which was very large, and filled with congula. These, together with my hand, were expelled by tha regular and uniform cantraction of the uterns. It then contracted down to its usual size and shape. Much blood had been lost during this time, which, together with the protracted suffering and watching, reduced the patient to a great degree of prastration, and it was difficult to keep her out of syncope. The bead was placed lawer than the feet, brandy and laudanum were administered, and perfect quietude enjoined. In n few bours she was comfortable, and all the powers milied so that it was safe to leave her. Her getting up was slow, and attended with the mony nervous nilmente se common to acomia. No hemorrhage whatever succeeded the expulsion of the placentn, and normal controction of the uterus took ploce. So soon as the stricture was dilated n uniform and simultaneous contraction of all the parts eccurred, with remarkable energy, and put hemorrhage out of the question. The character of the pain which succeeded was declared to he "refreshingly changed," when coutrosted with those which preceded, being simply after-poios, instead of the cramps experienced hefore, "so horrible to think upon."

In raviow of the aheve cases I desire to note-

- The three first described cases all exhibited symptoms of ohdominal ioflamulation, during some period of pregenancy, over a circumscribed locality.
  - 2. The uterine poins determined the seat to ha in the uterus.
- 3. In the first case the pair was ascertained to ha in the same locality as the placeutal murmur.
- 4. All three of the placento contained the products of inflammation; the first two fibrinous, and the third pus.
- 5. In oll three there was adhesion of the placenta and hour-glass contraction of the uterus below the place of adhesion.
- The irregular controction was supposed to be caused by the adhesion, and the edhesion by inflammation, cousing plastitic effusion between the uterus and placente.
- 7. The partiel separation of the placente was the couse of the hemorrhoge, by opening the placente-uterine veins, and preventing contraction to an extent sufficient to close them.
- 8. In the last two cases the irregular contraction, no doubt, depended on the vamping of the uterine walls upon the uneven surface of the child's body for so long a time hefore delivery as to derunge its contractile threes, and induce spasmodic action in the fibres most contracted.
- 9. The most effectual means of relief is the introduction of the hend to dilate the contracted part, and thus restore the uniformly arched shape of the ergan, and remove the placents and coagule from its early.

Is nature capable of relieving such cases?

10. Naturo sometimes ralieves such cases as the last two, by syncope. This relaxes the whole muscular organization, and with it, the spasmodicelly contracted fibres. The elasticity of the parietes of the uterus may, after the subsidence of the state of syncope, restore the regular rotund shape of the organ, and, upon the supervention of the next pain, it may contract uniformly.